

ABSTRACT

A METHOD OF DESPREADING A SPREAD SPECTRUM SIGNAL

5 A method of despreading a target spread spectrum signal containing
pseudorandom noise (PRN) code sequences modulated by a data message is
disclosed. The method comprises the steps of providing data message
information relating to the timing of an epoch of at least one data bit; and
performing a correlation of the target signal and a replica signal containing
10 corresponding PRN code sequences using the data message information to
minimise degradation of the correlation caused by variations in the PRN code
sequences in the target signal attributable to modulation by the data message.

 The correlation may be timed so as to substantially avoid continuous
correlation over an epoch of a data bit. Alternatively, the data message
15 information may further comprise bit information wherein the correlation is
modified as a function of the data message information. In particular, where
data bit modulation of the PRN code sequences in the target signal is the
same as or equivalent to exclusive-or modulation, the polarity of PRN code
sequences in the replica signal may be selectively reversed.

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[Figure 2]

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